DADE BEHRING

DADE BEHRING INC. P.O. Box 6101 Newark, DE 19714

Uui 1 6 2002

K023065

### Summary of Safety and Effectiveness Information

This summary of 510(k) safety and effectiveness information is being submitted in accordance with the requirements of SMDA 1990 and 21 CFR 807.92.

Submitter's Name:

Lorraine Piestrak

Dade Behring Inc. P.O. Box 6101

Newark, DE 19714-6101

Date of Preparation:

April 10, 2001

Name of Product:

Cyclosporine (CSA) Flex® reagent cartridge

FDA Classification Name: Cyclosporine Test System

Predicate Device:

Abbott TDx® Cyclosporine Monoclonal Whole Blood Assay (P890025)

Device Description: The automated Dimension® CSA method uses an immunoassay technique in which free and CSA-bound antibody-enzyme species are separated using magnetic particles. Following separation, the CSA-antibody-enzyme complex is mixed with the substrate. Bgalactosidase catalyzes the hydrolysis of CPRG (chlorophenol red B-d- galactopyranoside) to produce CPR (chlorophenol red) that absorbs light maximally at 577 nm. The change in absorbance at 577 nm due to the formation of CPR is directly proportional to the amount of CSA in the patient's sample and is measured using a bichromatic (577, 700 nm) rate technique.

Intended Use: The CSA Flex® reagent cartridge is an in vitro diagnostic test intended to quantitatively measure cyclosporine A (CSA) in human whole blood for the Dimension® clinical chemistry system. Measurements of CSA are used as an aid in the management of heart, liver, and kidney transplant patients.

#### Comparison to Predicate Device:

<u>Item</u>	CSA Flex® reagent cartridge	TDx® CSA	
Sample Type	Whole blood	Whole blood	
Technology	Affinity Particle	Fluorescence Polarization	
	Mediated Immunoassay	Immunoassay	
Antibody	Mouse monoclonal	Mouse monoclonal	
Detection	Bichromatic (577,700 nm)	Fluorometric endpoint	
	rate measurement	measurement	
Assay sensitivity	25.00 ng/mL	25.00 ng/mL	

### Comments on Substantial Equivalence:

Split sample comparison between the CSA Flex® reagent cartridge on the Dimension® clinical chemistry system and the Abbott TDx® CSA assay gave a correlation coefficient of 0.957, slope of 0.83, and an intercept of - 20.7 ng/mL [-18.6 nmol/L] when tested with 667 clinical patient samples. Comparative method slope results were expected due to metabolite cross-reactivity differences.

Conclusion: The Cyclosporine(CSA) Flex® reagent cartridge is substantially equivalent in principle and performance to the Abbott TDx® Cyclosporine Monoclonal Whole Blood assay.

Lorraine Piestrak

Tonami Pastrak

Regulatory Affairs and Compliance Manager

April 10, 2001

# DEPARTMENT OF HEALTH & HUMAN SERVICES

Food and Drug Administration 2098 Gaither Road Rockville MD 20850

Ms. Lorraine Piestrak
Regulatory Affairs and Compliance Manager
Dade Behring, Inc.
Chemistry/Immunochemistry
Glasglow Business Community
P.O. Box 6101 – Building 500
Newark, DE 19714

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Re: k023065

Trade/Device Name: Cyclosporine (CSA) Flex® reagent cartridge

Regulation Number: 21 CFR 862.1235 Regulation Name: Cyclosporine test system

Regulatory Class: Class II Product Code: MKW Dated: September 13, 2002 Received: September 16, 2002

Dear Ms. Piestrak:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4588. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its internet address "http://www.fda.gov/cdrh/dsma/dsmamain.html".

Sincerely yours,

Steven I. Gutman, M.D., M.B.A.

Director

Division of Clinical Laboratory-Devices

Steven Dutman

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

## Indications For Use Statement

K023065

Device Name: Cyclosporine (CSA) Flex® reagent cartridge

# Indications for Use:

The CSA Flex® reagent cartridge is an *in vitro* diagnostic test intended to quantitatively measure cyclosporine A (CSA) in human whole blood for the Dimension ® clinical chemistry system. Measurements of CSA are used as an aid in the management of heart, liver and kidney transplant patients.

Lorraine Piestrak
Regulatory Affairs and
Compliance Manager

April 10, 2001

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NEEDED)				
Concurr	rence of CDRH, Office of	of Device Evaluati	on (ODE)	

Prescription Use (Per 21 CFR 801.109)

OR

Over-the-counter Use

(Optional format 1-2-96)

(Division Sign-Off)

Division of Clinical Laboratory Devices

510(k) Number K 0 23005